

P. Gambel

1644

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/819,669E

DATE: 07/13/2000
TIME: 04:02:39

INPUT SET: S35683.raw

**This Raw Listing contains the General
Information Section and those Sequences
containing ERRORS.**

Does Not Comply
Corrected Diskette Needed

SEQUENCE LISTING

(1) General Information:

- (i) APPLICANTS: Boon-Falleur, Thierry; Van der Bruggen, Thierry;
Van den Eynde, Beno t; Van Pel, Aline; De Plaen, Etienne;
Lurquin, Christophe; Chomez, Patrick; Traversari, Catia
- (ii) TITLE OF INVENTION: Tumor Rejection Antigen Precursors, Tumor
Rejection Antigens and Uses Thereof
- (iii) NUMBER OF SEQUENCES: 28
- (iv) CORRESPONDENCE ADDRESS:
(A) ADDRESSEE: Fulbright & Jaworski LLP
(B) STREET: 666 Fifth Avenue
(C) CITY: New York City
(D) STATE: New York
(E) COUNTRY: USA
(F) ZIP: 10103
- (v) COMPUTER READABLE FORM:
(A) MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
(B) COMPUTER: IBM
(C) OPERATING SYSTEM: PC-DOS
(D) SOFTWARE: Wordperfect
- (vi) CURRENT APPLICATION DATA:
(A) APPLICATION NUMBER: 08/819,669
(B) FILING DATE: 17-March-1997
(C) CLASSIFICATION: 435
- (vii) PRIOR APPLIATION DATA:
(A) APPLICATION NUMBER: 08/142,368
(B) FILING DATE: 02-MAY-1994
- (vii) PRIOR APPLICATION DATA:
(A) APPLICATION NUMBER: PCT/US92/04354
(B) FILING DATE: 22-MAY-1992
- (vii) PRIOR APPLICATION DATA:
(A) APPLICATION NUMBER: 07/807,043
(B) FILING DATE: 12-DECEMBER-1991
- (vii) PRIOR APPLICATION DATA:

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/819,669EDATE: 07/13/2000
TIME: 04:02:40

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46 (A) APPLICATION NUMBER: 07/764,364
47 (B) FILING DATE: 23-SEPTEMBER-1991
48
49 (vii) PRIOR APPLICATION DATA:
50 (A) APPLICATION NUMBER: 07/728,838
51 (b) FILING DATE: 9-JULY-1991
52
53 (vii) PRIOR APPLICATION DATA:
54 (A) APPLICATION NUMBER: 07/705,702
55 (B) FILING DATE: 23-May-1991
56
57 (viii) ATTORNEY/AGENT INFORMATION:
58 (A) NAME: Hanson, Norman D.
59 (B) REGISTRATION NUMBER: 30,946
60 (C) REFERENCE/DOCKET NUMBER: LUD 5253.5-US
61
62 (ix) TELECOMMUNICATION INFORMATION:
63 (A) TELEPHONE: (212)318-3168
64 (B) TELEFAX: (212)752-5958
65
66
67

ERRORED SEQUENCES FOLLOW:

399 (2) INFORMATION FOR SEQ ID NO: 8:
400 (i) SEQUENCE CHARACTERISTICS:
401 (A) LENGTH: 5674 base pairs
402 (B) TYPE: nucleic acid
403 (C) STRANDEDNESS: single
404 (D) TOPOLOGY: linear
405 (ii) MOLECULE TYPE: genomic DNA
406 (ix) FEATURE:
407 (A) NAME/KEY: MAGE-1 gene
408 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
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411 CCCGGGGCAC CACTGGCATC CCTCCCCCTA CCACCCCCAA TCCCTCCCTT 50
412 TACGCCACCC ATCCAAACAT CTTCACGCTC ACCCCCAGCC CAAGCCAGGC 100
413 AGAATCCGGT TCCACCCCTG CTCTCAACCC AGGGAAGCCC AGGTGCCCAG 150
414 ATGTGACGCC ACTGACTTGA GCATTAGTGG TTAGAGAGAA GCGAGGTTTT 200
415 CGGTCTGAGG GCGGGCTTGA GATCGGTGGA GGGAAGCGGG CCCAGCTCTG 250
416 TAAGGAGGCA AGGTGACATG CTGAGGGAGG ACTGAGGACC CACTTACCCC 300
417 AGATAGAGGA CCCCATAATA TCCCTTCATG CCAGTCCTGG ACCATCTGGT 350
418 GGTGGACTTC TCAGGCTGGG CCACCCCCAG CCCCCTTGCT GCTTAAACCA 400
419 CTGGGGACTC GAAGTCAGAG CTCCGTGTGA TCAGGGAAGG GCTGCTTAGG 450
420 AGAGGGCAGC GTCCAGGCTC TGCCAGACAT CATGCTCAGG ATTCTCAAGG 500
421 AGGGCTGAGG GTCCCTAAGA CCCCCTCCC GTGACCCAAC CCCCCTCCA 550
422 ATGCTCACTC CCGTGACCCA ACCCCTCTT CATTGTCATT CCAACCCCCA 600
423 CCCCACATCC CCCACCCCAT CCCTCAACCC TGATGCCCAT CCGCCCAGCC 650

RAW SEQUENCE LISTING PATENT APPLICATION US/08/819,669E

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427	AGGGACGGCG	TAGAGTTCGG	CCGAAGGAAC	CTGACCCAGG	CTCTGTGAGG	850
428	AGGCAAGGTG	AGAGGCTGAG	GGAGGACTGA	GGACCCCGCC	ACTCCAAATA	900
429	GAGAGCCCCA	AATATTCCAG	CCCCGCCCTT	GCTGCCAGCC	CTGGCCCCACC	950
430	CGCGGGAAGA	CGTCTCAGCC	TGGGCTGCCC	CCAGACCCCT	GCTCCAAAAG	1000
431	CCTTGAGAGA	CACCAGGTTC	TTCTCCCCAA	GCTCTGGAAT	CAGAGGTTGC	1050
432	TGTGACCAGG	GCAGGACTGG	TTAGGAGAGG	GCAGGGCACA	GGCTCTGCCA	1100
433	GGCATCAAGA	TCAGCACCCA	AGAGGGAGGG	CTGTGGGCCC	CCAAGACTGC	1150
434	ACTCCAATCC	CCATCCCCAC	CCCATTGCGA	TTCCCATTCC	CCACCCAACC	1200
435	CCCATCTCCT	CAGCTACACC	TCCACCCCCA	TCCCTACTCC	TACTCCGTCA	1250
436	CCTGACCACC	ACCCTCCAGC	CCCAGCACCA	GCCCCAACCC	TTCTGCCACC	1300
437	TCACCTCAC	TGCCCCCAAC	CCCACCCTCA	TCTCTCTCAT	GTGCCCCACT	1350
438	CCCATCGCCT	CCCCATTCT	GGCAGAATCC	GGTTTGCCCC	TGCTCTCAAC	1400
439	CCAGGGAAGC	CCTGGTAGGC	CCGATGTGAA	ACCACTGACT	TGAACCTCAC	1450
440	AGATCTGAGA	GAAGCCAGGT	TCATTTAATG	GTTCTGAGGG	GCGGCTTGAG	1500
441	ATCCACTGAG	GGGAGTGGTT	TTAGGCTCTG	TGAGGAGGCA	AGGTGAGATG	1550
442	CTGAGGGAGG	ACTGAGGAGG	CACACACCCC	AGGTAGATGG	CCCCAAAATG	1600
443	ATCCAGTACC	ACCCTGCTG	CCAGCCCTGG	ACCACCCGGC	CAGGACAGAT	1650
444	GTCTCAGCTG	GACCACCCCC	CGTCCCGTCC	CACTGCCACT	TAACCCACAG	1700
445	GGCAATCTGT	AGTCATAGCT	TATGTGACCG	GGGCAGGGTT	GGTCAGGAGA	1750
446	GGCAGGGCCC	AGGCATCAAG	GTCCACCATC	CGCCCCGCAT	TAGGGTCAGG	1800
447	ACCCTGGGAG	GGAAGTGAGG	GTTCCCCACC	CACACCTGTC	TCCTCATCTC	1850
448	CACCGCCACC	CCACTCACAT	TCCCATACT	ACCCCTACC	CCCAACCTCA	1900
449	TCTTGTCAGA	ATCCCTGCTG	TCAACCCACG	GAAGCCACGG	GAATGGCGGC	1950
450	CAGGCACTCG	GATCTTGACG	TCCCCATCCA	GGGTCTGATG	GAGGGAAGGG	2000
451	GCTTGAACAG	GGCCTCAGGG	GAGCAGAGGG	AGGGCCCTAC	TGCGAGATGA	2050
452	GGGAGGCCTC	AGAGGACCCA	GCACCCTAGG	ACACCGCACC	CCTGTCTGAG	2100
453	ACTGAGGCTG	CCACTTCTGG	CCTCAAGAAT	CAGAACGATG	GGGACTCAGA	2150
454	TTGCATGGGG	GTGGGACCCA	GGCCTGCAAG	GCTTACGCGG	AGGAAGAGGA	2200
455	GGGAGGACTC	AGGGGACCTT	GGAATCCAGA	TCAGTGTGGA	CCTCGGCCCT	2250
456	GAGAGGTCCA	GGGCACGGTG	GCCACATATG	CCCCATATTT	CCTGCATCTT	2300
457	TGAGGTGACA	GGACAGAGCT	GTGGTCTGAG	AAGTGGGGCC	TCAGGTCAAC	2350
458	AGAGGGAGGA	GTTCCAGGAT	CCATATGGCC	CAAGATGTGC	CCCCTTCATG	2400
459	AGGACTGGGG	ATATCCCCGG	CTCAGAAAGA	AGGGACTCCA	CACAGTCTGG	2450
460	CTGTCCCCTT	TTAGTAGCTC	TAGGGGGACC	AGATCAGGGA	TGGCGGTATG	2500
461	TTCCATTCTC	ACTTGTACCA	CAGGCAGGAA	GTTGGGGGGC	CCTCAGGGAG	2550
462	ATGGGGTCTT	GGGGTAAAGG	GGGGATGTCT	ACTCATGTCA	GGGAATTGGG	2600
463	GGTTGAGGAA	GCACAGGCGC	TGGCAGGAAT	AAAGATGAGT	GAGACAGACA	2650
464	AGGCTATTGG	AATCCACACC	CCAGAACCAA	AGGGGTGAGC	CCTGGACACC	2700
465	TCACCCAGGA	TGTGGCTTCT	TTTTCACTCC	TGTTTCAGA	TCTGGGGCAG	2750
466	GTGAGGACCT	CATTCTCAGA	GGGTGACTCA	GGTCAACGTA	GGGACCCCCA	2800
467	TCTGGTCTAA	AGACAGAGCG	GTCCCAGGAT	CTGCCATGCG	TTCGGGTGAG	2850
468	GAACATGAGG	GAGGACTGAG	GGTACCCAG	GACCAGAACA	CTGAGGGAGA	2900
469	CTGCACAGAA	ATCAGCCCTG	CCCCTGCTGT	CACCCAGAG	AGCATGGGCT	2950
470	GGGCCGTCTG	CCGAGGTCC	TCCGTTATCC	TGGGATCATT	GATGTCAGGG	3000
471	ACGGGGAGGC	CTTGGTCTGA	GAAGGCTGCG	CTCAGGTCAG	TAGAGGGAGC	3050
472	GTCCCAGGCC	CTGCCAGGAG	TCAAGGTGAG	GACCAAGCGG	GCACCTCACC	3100
473	CAGGACACAT	TAATTCCAAT	GAATTTTGAT	ATCTCTTGCT	GCCCTTCCCC	3150
474	AAGGACCTAG	GCACGTGTGG	CCAGATGTTT	GTCCCCCTCT	GTCCTTCCAT	3200
475	TCCTTATCAT	GGATGTGAAC	TCTTGATTG	GATTTCCTCAG	ACCAGCAAAA	3250
476	GGGCAGGATC	CAGGCCCTGC	CAGGAAAAAT	ATAAGGGGCC	TGCGTGAGAA	3300

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479	CTGAGGGCCC	GTGGATTCTT	CTTCCTGGAG	CTCCAGGAAC	CAGGCAGTGA	3450
480	GGCCTTGCTC	TGAGACAGTA	TCCTCAGGTC	ACAGAGCAGA	GGATGCACAG	3500
481	GGTGTGCCAG	CAGTGAATGT	TTGCCCTGAA	TGCACACCAA	GGGCCCCACC	3550
482	TGCCACAGGA	CACATAGGAC	TCCACAGAGT	CTGGCCTCAC	CTCCCTACTG	3600
483	TCAGTCCTGT	AGAATCGACC	TCTGCTGGCC	GGCTGTACCC	TGAGTACCCT	3650
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488	CTCCTGCCTG	CTGCCCTGAC	GAGAGTCATC			3880
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490	GCC CTT GAG	GCC CAA CAA	GAG GCC CTG	GGC CTG	GTG TGT GTG	3964
491	CAG GCT GCC	ACC TCC TCC	TCT CCT CTG	GTC CTG	GGC ACC	4006
492	CTG GAG GAG	GTG CCC ACT	GCT GGG TCA	ACA GAT	CCT CCC CAG	4048
493	AGT CCT CAG	GGA GCC TCC	GCC TTT CCC	ACT ACC	ATC AAC TTC	4090
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497	CTG CTC CTC	AAA TAT CGA	GCC AGG GAG	CCA GTC	ACA AAG GCA	4258
498	GAA ATG CTG	GAG AGT GTC	ATC AAA AAT	TAC AAG	CAC TGT TTT	4300
499	CCT GAG ATC	TTC GGC AAA	GCC TCT GAG	TCC TTG	CAG CTG GTC	4342
500	TTT GGC ATT	GAC GTG AAG	GAA GCA GAC	CCC ACC	GGC CAC TCC	4384
501	TAT GTC CTT	GTC ACC TGC	CTA GGT CTC	TCC TAT	GAT GGC CTG	4426
502	CTG GGT GAT	AAT CAG ATC	ATG CCC AAG	ACA GGC	TTC CTG ATA	4468
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504	GAG GAG GAA	ATC TGG GAG	GAG CTG AGT	GTG ATG	GAG GTG TAT	4552
505	GAT GGG AGG	GAG CAC AGT	GCC TAT GGG	GAG CCC	AGG AAG CTG	4594
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--> 507	AGG TGC CGG	ACA GTG ATC	CCG CAC GCT	ATG AGT	TCC TGT GGG	4688 4678
--> 508	GTC CAA GGG	CCC TCG CTG	AAA CCA GCT	ATG TGA		4711
509	AAGTCTTGA	GTATGTGATC	AAGGTCAGTG	CAAGAGTTC		4750
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511	GGAGTCTGAG	CATGAGTTGC	AGCCAAGGCC	AGTGGGAGGG	GGACTGGGCC	4850
512	AGTGACCTTT	CCAGGGCCGC	GTCCAGCAGC	TTCCCCTGCC	TCGTGTGACA	4900
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514	GTTTCTGTTC	TATTGGGTGA	CTTGGAGATT	TATCTTTGTT	CTCTTTTGGA	5000
515	ATTGTTCAAA	TGTTTTTTTT	TAAGGGATGG	TTGAATGAAC	TTCAGCATCC	5050
516	AAGTTTATGA	ATGACAGCAG	TCACACAGTT	CTGTGTATAT	AGTTTAAGGG	5100
517	TAAGAGTCTT	GTGTTTTATT	CAGATTGGGA	AATCCATTCT	ATTTTGTGAA	5150
518	TTGGGATAAT	AACAGCAGTG	GAATAAGTAC	TTAGAAATGT	GAAAAATGAG	5200
519	CAGTAAAATA	GATGAGATAA	AGAACTAAAG	AAATTAAGAG	ATAGTCAATT	5250
520	CTTGCCCTTAT	ACCTCAGTCT	ATTCTGTAAA	ATTTTTAAAG	ATATATGCAT	5300
521	ACCTGGATTT	CCTTGGCTTC	TTTGAGAATG	TAAGAGAAAT	TAAATCTGAA	5350
522	TAAAGAATTC	TTCTGTTCAT	CTGGCTCTTT	TCTTCTCCAT	GCACTGAGCA	5400
523	TCTGCTTTTT	GGAAGGCCCT	GGGTTAGTAG	TGGAGATGCT	AAGGTAAGCC	5450
524	AGACTCATAC	CCACCCATAG	GGTCGTAGAG	TCTAGGAGCT	GCAGTCACGT	5500
525	AATCGAGGTG	GCAAGATGTC	CTCTAAAGAT	GTAGGGAAAA	GTGAGAGAGG	5550
526	GGTGAGGGTG	TGGGGCTCCG	GGTGAGAGTG	GTGGAGTGTC	AATGCCCTGA	5600
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528	ATTGTAATGA	TCTTGGGTGG	ATCC			5674
529						

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/819,669EDATE: 07/13/2000
TIME: 04:02:43

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1008 (2) INFORMATION FOR SEQ ID NO: 17:
1009 (i) SEQUENCE CHARACTERISTICS:
1010 (A) LENGTH: 2305 base pairs
1011 (B) TYPE: nucleic acid
1012 (C) STRANDEDNESS: single
1013 (D) TOPOLOGY: linear
1014 (ii) MOLECULE TYPE: genomic DNA
1015 (ix) FEATURE:
1016 (A) NAME/KEY: MAGE-51 gene
1017 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
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1021 GGATCCAGGC CTTGCCAGGA GAAAGGTGAG GGCCCTGTGT GAGCACAGAG 50
1022 GGGACCATTC ACCCCAAGAG GGTGGAGACC TCACAGATTC CAGCCTACCC 100
1023 TCCTGTTAGC ACTGGGGGCC TGAGGCTGTG CTTGCAGTCT GCACCCTGAG 150
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1025 TGGTCTGAGG CCGTGCCCTC AGGTCACAGA GCAGAGGAGA TGCAGACGTC 250
1026 TAGTGCCAGC AGTGAACGTT TGCCTTGAAT GCACACTAAT GGCCCCCATC 300
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1033 AGCTCCTGCC CACACTCCTG CCTGTTGCGG TGACCAGAGT CGTC 644
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1035 GGC CTT GAC ACC CAA GAA GAG CCC TGG GCC TGG TGG GTG TGC 728
1036 AGG CTG CCA CTA CTG AGG AGC AGG AGG CTG TGT CCT CCT CCT 770
1037 CTC CTC TGG TCC CAG GCA CCC TGG GGG AGG TGC CTG CTG CTG 812
1038 GGT CAC CAG GTC CTC TCA AGA GTC CTC AGG GAG CCT CCG CCA 854
1039 TCC CCA CTG CCA TCG ATT TCA CTC TAT GGA GGC AAT CCA TTA 896
1040 AGG GCT CCA GCA ACC AAG AAG AGG AGG GGC CAA GCA CCT CCC 938
1041 CTG ACC CAG AGT CTG TGT TCC GAG CAG CAC TCA GTA AGA AGG 980
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1043 TTCATTTTCT GTCCTCAAG TATTAAGTCA AGGAGCCGGT CACAAAGGCA 1042
1044 GAAATGCTGG AGAGCGTCAT CAAAAATTAC AAGCGCTGCT TTCCTGAGAT 1092
1045 CTTCCGGCAA GCCTCCGAGT CTTGTCAGCT GGTCTTTGGC ATTGACGTGA 1142
1046 AGGAAGCGGA CCCCACCAGC AACACCTACA CCCTTGTCAC CTGCCTGGGA 1192
1047 CTCCTATGAT GGCCTGGTGG TTTAATCAGA TCATGCCCAA GACGGGCCTC 1242
1048 CTGATAATCG TCTTGGGCAT GATTGCAATG GAGGGCAAAT GCGTCCCTGA 1292
1049 GGAGAAAATC TGGGAGGAGC TGGGTGTGAT GAAGGTGTAT GTTGGGAGGG 1342
1050 AGCACAGTGT CTGTGGGGAG CCCAGGAAGC TGCTCACCCA AGATTTGGTG 1392
1051 CAGGAAAACCT ACCTGGAGTA CCGCAGGTGC CCAGCAGTGA TCCCATATGC 1442
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1054 TGAAGCAGCT TTGAGAGAGG AGGAAGAGGG AGTCTGAGCA TGAGCTGCAG 1592
1055 CCAGGGCCAC TGCAGGGGGG GCTGGGCCAG TGCACCTTCC AGGGCTCCGT 1642
1056 CCAGTAGTTT CCCCTGCCTT AATGTGACAT GAGGCCCATC CTTCTCTCTT 1692

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1059	TAATGGGTGG	TTGAATGAAC	TTCAGCATTC	AAATTTATGA	ATGACAGTAG	1842
1060	TCACACATAG	TGCTGTTTAT	ATAGTTTAGG	AGTAAGAGTC	TTGTTTTTTA	1892
1061	TTCAGATTGG	GAAATCCATT	CCATTTTGTG	AATTGGGACA	TAGTTACAGC	1942
1062	AGTGGAATAA	GTATTCATTT	AGAAATGTGA	ATGAGCAGTA	AAACTGATGA	1992
1063	GATAAAGAAA	TTAAAAGATA	TTAATTTCTT	GCCTTATACT	CAGTCTATTC	2042
1064	GGTAAAATTT	TTTTTTAAAA	ATGTGCATAC	CTGGATTTCC	TTGGCTTCTT	2092
1065	TGAGAATGTA	AGACAAATTA	AATCTGAATA	AATCATTCTC	CCTGTTCACT	2142
1066	GGCTCATTTA	TTCTCTATGC	ACTGAGCATT	TGCTCTGTGG	AAGGCCCTGG	2192
1067	GTTAATAGTG	GAGATGCTAA	GGTAAGCCAG	ACTCACCCCT	ACCCACAGGG	2242
1068	TAGTAAAGTC	TAGGAGCAGC	AGTCATATAA	TTAAGGTGGA	GAGATGCCCT	2292
1069	CTAAGATGTA	GAG				2305
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1334 (2) INFORMATION FOR SEQ ID NO: 24:
 1335 (i) SEQUENCE CHARACTERISTICS:
 1336 (A) LENGTH: 2150 base pairs
 1337 (B) TYPE: nucleic acid
 1338 (C) STRANDEDNESS: single
 1339 (D) TOPOLOGY: linear
 1340 (ii) MOLECULE TYPE: genomic DNA
 1341 (ix) FEATURE:
 1342 (A) NAME/KEY: smage-I
 1343 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 24:

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1350	TATACCCCTG	CATTGTAAAGT	TTAAGTGGCT	TTATGTGGAT	ACAGGTCTCT	200
1351	GCCCTTGAT	GCAGGCCTAA	GTTTTTCTGT	CTGCTTAAAC	CCTCCAAGTG	250
1352	AAGCTAGTGA	AAGATCTAAC	CCACTTTTGG	AAGTCTGAAA	CTAGACTTTT	300
1353	ATGCAGTGGC	CTAACAAGTT	TTAATTTCTT	CCACAGGGTT	TGCAGAAAAG	350
1354	AGCTTGATCC	ACGAGTTCAG	AAGTCCTGGT	ATGTTCTAG	AAAG	394
1355	ATG TTC TCC	TGG AAA GCT	TCA AAA GCC	AGG TCT CCA	TTA AGT	436
1356	CCA AGG TAT	TCT CTA CCT	GGT AGT ACA	GAG GTA CTT	ACA GGT	478
1357	TGT CAT TCT	TAT CCT TCC	AGA TTC CTG	TCT GCC AGC	TCT TTT	520
--> 1358	ACT TCA GCC	CTG AGC ACA	GTC AAC ATG	CCT AGG GGT	CAA AAG	565 562
--> 1359	AGT AAG ACC	CGC TCC CGT	GCA AAA CGA	CAG CAG TCA	CGC AGG	604
1360	GAG GTT CCA	GTA GTT CAG	CCC ACT GCA	GAG GAA GCA	GGG TCT	646
1361	TCT CCT GTT	GAC CAG AGT	GCT GGG TCC	AGC TTC CCT	GGT GGT	688
1362	TCT GCT CCT	CAG GGT GTG	AAA ACC CCT	GGA TCT TTT	GGT GCA	730
1363	GGT GTA TCC	TGC ACA GGC	TCT GGT ATA	GGT GGT AGA	AAT GCT	772
1364	GCT GTC CTG	CCT GAT ACA	AAA AGT TCA	GAT GGC ACC	CAG GCA	814
1365	GGG ACT TCC	ATT CAG CAC	ACA CTG AAA	GAT CCT ATC	ATG AGG	856
1366	AAG GCT AGT	GTG CTG ATA	GAA TTC CTG	CTA GAT AAA	TTT AAG	898
1367	ATG AAA GAA	GCA GTT ACA	AGG AGT GAA	ATG CTG GCA	GTA GTT	940
1368	AAC AAG AAG	TAT AAG GAG	CAA TTC CCT	GAG ATC CTC	AGG AGA	982

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/819,669EDATE: 07/13/2000
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1370 GAA ATT GAT CCC AGC ACT CAT TCC TAT TTG CTG GTA GGC AAA 1066
1371 CTG GGT CTT TCC ACT GAG GGA AGT TTG AGT AGT AAC TGG GGG 1108
1372 TTG CCT AGG ACA GGT CTC CTA ATG TCT GTC CTA GGT GTG ATC 1150
1373 TTC ATG AAG GGT AAC CGT GCC ACT GAG CAA GAG GTC TGG CAA 1192
1374 TTT CTG CAT GGA GTG GGG GTA TAT GCT GGG AAG AAG CAC TTG 1234
1375 ATC TTT GGC GAG CCT GAG GAG TTT ATA AGA GAT GTA GTG CGG 1276
--> 1376 GAA AAT TAC CTG GAG TAC CGC CAG GTA CCT GGC AGT GAT CCC 1314 1318
--> 1377 CCA AGC TAT GAG TTC CTG TGG GGA CCC AGA GCC CAT GCT GAA 1360
1378 ACA ACC AAG ATG AAA GTC CTG GAA GTT TTA GCT AAA GTC AAT 1402
1379 GGC ACA GTC CCT AGT GCC TTC CCT AAT CTC TAC CAG TTG GCT 1444
1380 CTT AGA GAT CAG GCA GGA GGG GTG CCA AGA AGG AGA GTT CAA 1486
1381 GGC AAG GGT GTT CAT TCC AAG GCC CCA TCC CAA AAG TCC TCT 1528
1382 AAC ATG TAG 1537
1383 TTGAGTCTGT TCTGTTGTGT TTGAAAAACA GTCAGGCTCC TAATCAGTAG 1587
1384 AGAGTTCATA GCCTACCAGA ACCAACATGC ATCCATTCTT GGCCTGTTAT 1637
1385 ACATTAGTAG AATGGAGGCT ATTTTGTGTTA CTTTTCAAAT GTTTGTTTAA 1687
1386 CTAAACAGTG CTTTTTGCCA TGCTTCTTGT TAACTGCATA AAGAGGTAAC 1737
1387 TGTCACCTGT CAGATTAGGA CTTGTTTTGT TATTTGCAAC AAAGTGGAAA 1787
1388 ACATTATTTT GTTTTTACTA AAACATTGTG TAACATTGCA TTGGAGAAGG 1837
1389 GATTGTCATG GCAATGTGAT ATCATAAGT GGTGAAACAA CAGTGAAGTG 1887
1390 GGAAAGTTTA TATTGTTAAT TTGAAAATT TTATGAGTGT GATTGCTGTA 1937
1391 TACTTTTTTC TTTTTGTAT AATGCTAAGT GAAATAAAGT TGGATTTGAT 1987
1392 GACTTTACTC AAATTCATTA GAAAGTAAAT CGTAAACTC TATTACTTTA 2037
1393 TTATTTTCTT CAATTATGAA TTAAGCATTG GTTATCTGGA AGTTTCTCCA 2087
1394 GTAGCACAGG ATCTAGTATG AAATGTATCT AGTATAGGCA CTGACAGTGA 2137
1395 GTTATCAGAG TCT 2150
1396
1397
1398

1471 (2) INFORMATION FOR SEQ ID NO:27:
1472 (i) SEQUENCE CHARACTERISTICS:
--> 1473 (A) LENGTH: 20 nucleotides
--> 1474 (B) TYPE: nucleic acid
1475 (C) STRANDEDNESS: single
1476 (D) TOPOLOGY: linear
1477 (ii) MOLECULE TYPE: cDNA
1478 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:
--> 1479 ACTCAGCTCC TCCAGATTT
1480

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/08/819,669EDATE: 07/13/2000
TIME: 04:10:22

INPUT SET: S35683.raw

Line	Error	Original Text
31	Wrong Classification	(C) CLASSIFICATION: 435
495	# of Sequences for line conflicts w/ running total	GAG GAG GGG CCA AGC ACC TCT TGT ATC CTG GA
496	# of Sequences for line conflicts w/ running total	CGA GCA GTA ATC ACT AAG AAG GTG GCT GAT TT
507	# of Sequences for line conflicts w/ running total	AGG TGC CGG ACA GTG ATC CCG CAC GCT ATG AG
508	# of Sequences for line conflicts w/ running total	GTC CAA GGG CCC TCG CTG AAA CCA GCT ATG TG
1011	Unknown or Misplaced Identifier	(B) TYPE; nucleic acid
1358	# of Sequences for line conflicts w/ running total	ACT TCA GCC CTG AGC ACA GTC AAC ATG CCT AG
1359	# of Sequences for line conflicts w/ running total	AGT AAG ACC CGC TCC CGT GCA AAA CGA CAG CA
1376	# of Sequences for line conflicts w/ running total	GAA AAT TAC CTG GAG TAC CGC CAG GTA CCT GG
1377	# of Sequences for line conflicts w/ running total	CCA AGC TAT GAG TTC CTG TGG GGA CCC AGA GC
1473	Entered (20) and Calc. Seq. Length (0) differ	(A) LENGTH: 20 nucleotides
1474	Unknown or Misplaced Identifier	(B) TYPE; nucleic acid
1479	Wrong Amino Acid Designator	ACTCAGCTCC TCCCAGATTT
1479	Wrong Amino Acid Designator	ACTCAGCTCC TCCCAGATTT

PAGE: 1

SEQUENCE MISSING ITEM REPORT
PATENT APPLICATION US/08/819,669E

DATE: 07/13/2000
TIME: 04:10:22

INPUT SET: S35683.raw

PRIOR APPLICATION DATA More Identifiers Found Than MAX Allowed

SEQUENCE CORRECTION REPORT
PATENT APPLICATION US/08/819,669EDATE: 07/13/2000
TIME: 04:10:22

INPUT SET: S35683.raw

Line	Original Text	Corrected Text
5	(i) APPLICANTS: Boon-Falleur, Thierry; Van	(i) APPLICANT: Boon-Falleur, Thierry; Van de
19	(E) COUNTRY; USA	(E) COUNTRY:: USA
33	(vii) PRIOR APPLIATION DATA:	(vii) PRIOR APPLICATION DATA:
68	(2) INFORMATION FOR SEQUENCE ID NO: 1:	(2) INFORMATION FOR SEQ ID NO: 1:
91	(2) INFORMATION FOR SEQUENCE ID NO: 2:	(2) INFORMATION FOR SEQ ID NO: 2:
148	(2) INFORMATION FOR SEQUENCE ID NO: 3:	(2) INFORMATION FOR SEQ ID NO: 3:
166	(2) INFORMATION FOR SEQUENCE ID NO: 4:	(2) INFORMATION FOR SEQ ID NO: 4:
211	(2) INFORMATION FOR SEQUENCE ID NO: 5:	(2) INFORMATION FOR SEQ ID NO: 5:
323	(2) INFORMATION FOR SEQUENCE ID NO: 6:	(2) INFORMATION FOR SEQ ID NO: 6:
337	(2) INFORMATION FOR SEQUENCE ID NO: 7:	(2) INFORMATION FOR SEQ ID NO: 7:
399	(2) INFORMATION FOR SEQUENCE ID NO: 8:	(2) INFORMATION FOR SEQ ID NO: 8:
533	(2) INFORMATION FOR SEQUENCE ID NO: 9:	(2) INFORMATION FOR SEQ ID NO: 9:
639	(2) INFORMATION FOR SEQUENCE ID NO: 10:	(2) INFORMATION FOR SEQ ID NO: 10:
669	(2) INFORMATION FOR SEQUENCE ID NO: 11:	(2) INFORMATION FOR SEQ ID NO: 11:
723	(2) INFORMATION FOR SEQUENCE ID NO: 12:	(2) INFORMATION FOR SEQ ID NO: 12:
760	(2) INFORMATION FOR SEQUENCE ID NO: 13:	(2) INFORMATION FOR SEQ ID NO: 13:
832	(2) INFORMATION FOR SEQUENCE ID NO: 14:	(2) INFORMATION FOR SEQ ID NO: 14:
904	(2) INFORMATION FOR SEQUENCE ID NO: 15:	(2) INFORMATION FOR SEQ ID NO: 15:
945	(2) INFORMATION FOR SEQUENCE ID NO: 16:	(2) INFORMATION FOR SEQ ID NO: 16:
1008	(2) INFORMATION FOR SEQUENCE ID NO: 17:	(2) INFORMATION FOR SEQ ID NO: 17:
1074	(2) INFORMATION FOR SEQUENCE ID NO: 18:	(2) INFORMATION FOR SEQ ID NO: 18:
1096	(2) INFORMATION FOR SEQUENCE ID NO: 19:	(2) INFORMATION FOR SEQ ID NO: 19:
1152	(2) INFORMATION FOR SEQUENCE ID NO: 20:	(2) INFORMATION FOR SEQ ID NO: 20:
1208	(2) INFORMATION FOR SEQUENCE ID NO: 21:	(2) INFORMATION FOR SEQ ID NO: 21:
1256	(2) INFORMATION FOR SEQUENCE ID NO: 22:	(2) INFORMATION FOR SEQ ID NO: 22:
1293	(2) INFORMATION FOR SEQUENCE ID NO: 23:	(2) INFORMATION FOR SEQ ID NO: 23:
1334	(2) INFORMATION FOR SEQUENCE ID NO: 24:	(2) INFORMATION FOR SEQ ID NO: 24:
1399	(2) INFORMATION FOR SEQUENCE ID NO: 25:	(2) INFORMATION FOR SEQ ID NO: 25:
1457	(2) INFORMATION FOR SEQUENCE ID NO: 26:	(2) INFORMATION FOR SEQ ID NO: 26:
1471	(2) INFORMATION FOR SEQUENCE ID NO: 27	(2) INFORMATION FOR SEQ ID NO:27:
1478	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:27	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:
1481	(2) INFORMATION FOR SEQUENCE ID NO: 28	(2) INFORMATION FOR SEQ ID NO:28: